

Title (en)

A VISUAL RECOGNITION SYSTEM OF A VEHICLE, AND A METHOD FOR IMPLEMENTING SUCH SYSTEM

Title (de)

SYSTEM ZUR VISUELLEN ERKENNUNG EINES FAHRZEUGS UND VERFAHREN ZUR IMPLEMENTIERUNG SOLCH EINES SYSTEMS

Title (fr)

SYSTÈME DE RECONNAISSANCE VISUELLE D'UN VÉHICULE ET PROCÉDÉ DE MISE EN UVRE D'UN TEL SYSTÈME

Publication

**EP 3502775 A1 20190626 (EN)**

Application

**EP 17208639 A 20171219**

Priority

EP 17208639 A 20171219

Abstract (en)

The invention concerns a visual recognition system (1) for a vehicle, comprising a plastic capping (10) and an electronic module (20) positioned near an internal face (16) of the plastic capping (10); said electronic module (20) comprising a sealed housing (30), a printed circuit board (40) positioned inside the housing (30), and an optical sensor (50) positioned inside the housing (30) and connected to the printed circuit board (40); wherein the housing (30) comprises at least one transparent part (37) which is placed in front of the optical sensor (50) and is transparent to visible light; wherein the plastic capping (10) comprises at least one portion (18) which forms a first optical lens (80) placed in front of the optical sensor (50) and the transparent part (37); and wherein the optical sensor (50) is designed to capture an image outside the vehicle through the transparent part (37) and the first optical lens (80). The invention also concerns a method for implementing such system (1).

IPC 8 full level

**G03B 17/08** (2006.01); **B60R 1/00** (2006.01); **H04N 5/225** (2006.01)

CPC (source: CN EP US)

**B60R 11/04** (2013.01 - US); **G03B 17/08** (2013.01 - EP US); **G05D 1/0246** (2024.01 - US); **G06V 20/56** (2022.01 - US); **G06V 40/103** (2022.01 - US); **H04N 23/51** (2023.01 - CN EP US); **H04N 23/54** (2023.01 - CN); **H04N 23/55** (2023.01 - CN EP US); **H04N 23/57** (2023.01 - US); **B60R 2011/004** (2013.01 - US); **B60R 2011/0045** (2013.01 - US)

Citation (applicant)

- US 2016300410 A1 20161013 - JONES MATT [US], et al
- WO 2015168459 A1 20151105 - DURA OPERATING LLC [US]

Citation (search report)

- [XA] US 6483101 B1 20021119 - WEBSTER STEVEN [US]
- [XA] US 2017329204 A1 20171116 - STERN BEN [US], et al
- [XA] US 2006125919 A1 20060615 - CAMILLERI JOSEPH [US], et al
- [A] JP H0884277 A 19960326 - MITSUBISHI ELECTRIC CORP
- [A] US 2017359520 A1 20171214 - BOEHM NEIL J [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3502775 A1 20190626**; CN 110049208 A 20190723; US 11161461 B2 20211102; US 2019184908 A1 20190620

DOCDB simple family (application)

**EP 17208639 A 20171219**; CN 201811434199 A 20181128; US 201816216435 A 20181211